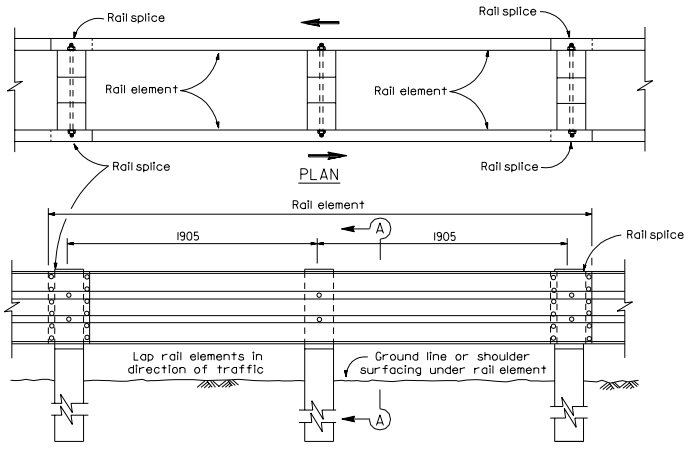
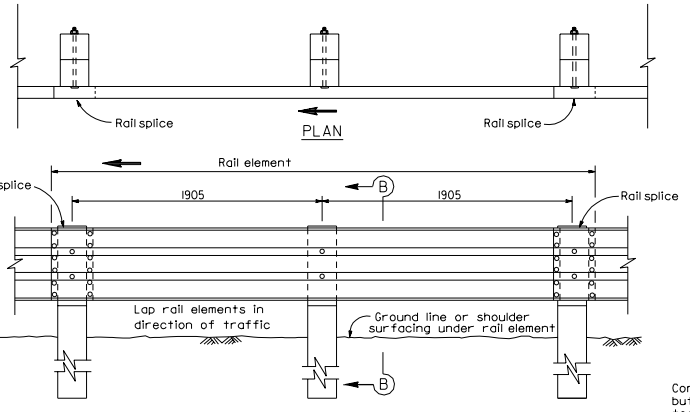


ELEVATION

DOUBLE THRIE BEAM BARRIER

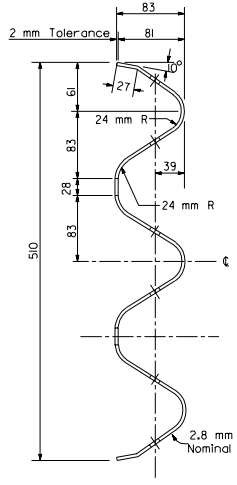
(Wood post and blocks)
See Note 1



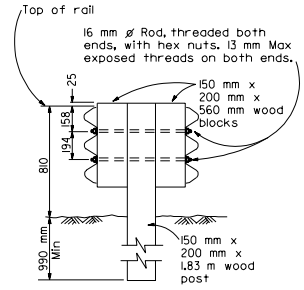
ELEVATION

SINGLE THRIE BEAM BARRIER

(Wood post and blocks)
See Note 1

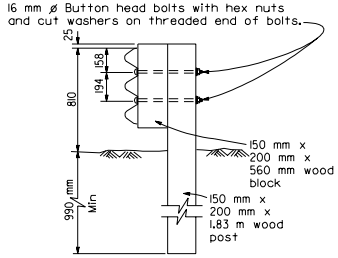


SECTION THRU RAIL ELEMENT



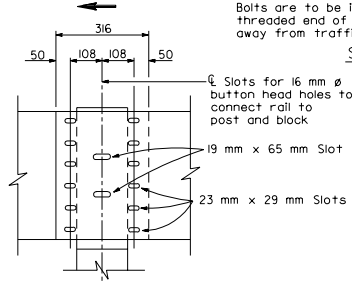
SECTION A-A

See Note 9



Bolts are to be installed as shown so that the threaded end of the bolts and nuts are placed away from traffic side of rail.

SECTION B-B



ELEVATION

RAIL ELEMENT SPLICE DETAIL

Connect the overlapped ends of the thrie beam rail elements with 16 mm ø x 35 mm button head ovalshoulder bolts inserted into the 23 mm x 29 mm slots and bolted together with 16 mm ø x 35 mm recessed hex nuts. A total of 12 bolts and nuts are to be used at each rail splice connection. The ends of the rail elements are to be overlapped in the direction of traffic (see details). Where a terminal section is to be attached to the end of a rail element, a totalof 4 of the above described splice bolts and nuts are to be used. Where a return section is to be attached to the ends of rail elements, a totalof 8 of the above described splice bolts and nuts are to be used.

NOTES

1. For details of steel post with wood block thrie beam barrier, see Standard Plan A78B.
2. For details of standard hardware, posts and blocks used to construct thrie beam barrier, see Standard Plan A78C.
3. Thrie beam barrier post spacing to be 1905 mm center to center, except as otherwise noted.
4. Top of barrier rail to be 810 mm above ground line or shoulder surfacing under the rail element.
5. For barrier end treatments and barrier connections, see Standard Plans A78E, A78EA, A78F and A78G.
6. For connection to Concrete Barrier (Type 60), see Standard Plans A78I.
7. Where standard embedment of barrier post is restricted by underground concrete facilities such as footing of walls, columns, etc., use post footing details on Standard Plan A77F.
8. For details of thrie beam barrier on bridge and thrie beam barrier at fixed object, see Standard Plan A78D.
9. Where offset roadway grades are encountered and height of rail element for each roadway cannot be obtained as shown in Section A-A, use saw tooth installation as shown on Standard Plan A78B.
10. Direction of traffic indicated by →

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER — Ellis K. Hirst

July 1, 1999
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Ellis K.Hirst — No. C17926 — Exp. 6-30-01 — CIVIL — STATE OF CALIFORNIA

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STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

THRIE BEAM BARRIER TYPICAL WOOD POST WITH WOOD BLOCK

NO SCALE

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

A78A

1999 STD. PLAN A78A